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P.O. Box 625, Rt. 331S, Millsboro, DE 19966

MAY 28 2010

April 23, 2010

SURFACE WATER

Allen McCloskey  
Sr. Environmental Compliance Specialist  
Division of Water Resources  
DNREC  
89 Kings Highway  
Dover, DE 19966

5-DAY

RE: DE0000736 – Ammonia concentration-daily max

Dear Allen:

This letter is a follow up to my phone call on April 21, 2010 informing you of a violation of our ammonia daily maximum concentration limit. Our limit is 6.7 mg/l and our 24 hour composite sample taken April 6th-April 7th had a result of 17.8 mg/l. The corresponding Nitrate was 0.27 mg/l and the Nitrite was 0.077 mg/l. The same composite sample had a TSS of 4 mg/l and a BOD of 2.24 mg/l. As I stated in our phone conversation we are composite sampling on the 21<sup>st</sup> and 22<sup>nd</sup> and will resume Monday the 26<sup>th</sup> through the end of the month or as long as necessary. Envirocorp has been notified that we need expedited results.

The January, February and March ammonia results were all <0.05 mg/l. There were no obvious signs of anything abnormal as the aeration PH and Alkalinity were on the normal to high side, optimal conditions for nitrification.

The 17.8 mg/l ammonia is very high. A possible source may be the plant, but there is no ammonia in the plant. Therefore I am sending EB samples out along with the effluent to check the current influent ammonia. I called Jane Keller and she said the conditions sounded optimum for nitrification at the time. If the sample from the 21<sup>st</sup> is not back to normal we will send a sample to Dr. Richard for his observation.

As I mentioned during our phone conversation I am out of town Monday-Thursday next week, you can reach me by cell. If we get any results Dennis will call you with them.

Any questions or concerns, please call me.

Sincerely,

*Bob Lynch*

Bob Lynch  
Environmental/Wastewater Supervisor  
(302)934-3833



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MAY 28 2010

SURFACE WATER

May11, 2010

Allen McCloskey  
Sr. Environmental Compliance Specialist  
Division of Water Resources  
DNREC  
89 Kings Highway  
Dover, DE 19966

RE: DE0000736 -- Ammonia concentration-daily max (summary)

Dear Allen:

This letter is a follow up to the letter dated April 23, 2010 informing you of a violation of our Ammonia daily maximum concentration limit. Our limit is 6.7 mg/l and our 24 hour composite sample taken April 6th-April 7<sup>th</sup> had a result of 17.8 mg/l. The corresponding Nitrate was 0.27 mg/l and the Nitrite was 0.077 mg/l. The same composite sample had a TSS of 4 mg/l and a BOD of 2.24 mg/l. As I stated in our phone conversation we are composite sampling on the 21<sup>st</sup> and 22<sup>nd</sup> and will resume Monday the 26<sup>th</sup> through the end of the month or as long as necessary. Envirocorp has been notified that we need expedited results.

The following effluent 24 hour composite samples and results are as follows:

- April 21-10.8 mg/l
- April 22-12.5 mg/l
- April 26-11.3 mg/l
- April 27-7.8 mg/l
- April 28-3.66 mg/l
- April 29-0.25 mg/l

We also analyzed 2 grab samples from the EB on the 22<sup>ND</sup> AND 23<sup>RD</sup>. The corresponding results were 8.02 and 6.37 mg/l of Ammonia.

A MLSS sample was taken on May 4<sup>th</sup> and had a result of 0.45 mg/l

The January, February and March Ammonia results were all <0.05 mg/l. There were no obvious signs of anything amiss as the aeration PH and Alkalinity were on the normal to high side, optimal conditions for nitrification.

We will continue to do additional monitoring on the EB and the AB to try and prevent any further issues.

Any questions or concerns, please call me.

Sincerely,

*Bob Lynch*

**Bob Lynch**  
**Environmental/Wastewater Supervisor**  
**(302)934-3833**

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MAY 28 2010

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